

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 04184160  
PUBLICATION DATE : 01-07-92

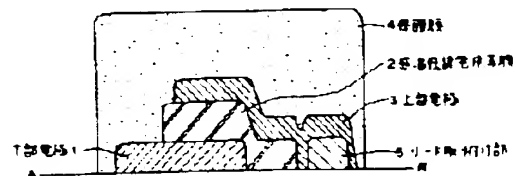
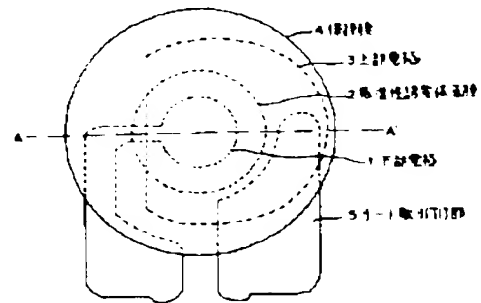
APPLICATION DATE : 19-11-90  
APPLICATION NUMBER : 02311473

APPLICANT : RIKA KOGYO KK;

INVENTOR : TAKAHASHI KIYOSHI;

INT.CL. : G01N 27/12

TITLE : HUMIDITY SENSITIVE ELEMENT



ABSTRACT : PURPOSE: To improve the water resistivity and temperature characteristic, and increase the responsive speed by converging an element body with a water- resistant protective film.

CONSTITUTION: A lower part electrode 1 formed on an insulative substrate, humidity sensitive dielectric thin film 2 formed on the electrode 1, and an upper part electrode 3 consisting of a humidity-permeable metal-covered film formed on the thin film 2 are provided. The whole surface of the element body is covered by a water-resistant protective film in which the product of the optical film thickness of the thin film 2 and the optical film thickness of the protective film is  $100\mu\text{m}^2$  or less and the film thickness of the protective film satisfies a range of  $1\mu\text{m}$  or more. Further, the water-resistant protective film is preferably made of silicone group polymer, e.g. silicone rubber.

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